

What is claimed is:

Sub A1

1. A system of inclined geosynchronous
2 satellite orbits above a landmass comprising:
3 a service area on a surface of the earth
4 having a predetermined minimum elevation angle from
5 the horizon;
6 a satellite having an orbit with respect to
7 the earth having sky track when viewed from within
8 said service area; and
9 an operating arc defined by a subset of
10 points on said sky track over said service area, said
11 satellite operating on said operating arc.

1. 2. A system as recited in claim 1 wherein
2 said orbit has a predetermined inclination with
3 respect to an equatorial plane of the earth.

1. 3. A system as recited in claim 1 wherein
2 said orbit has a predetermined eccentricity.

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1. 4. A system as recited in claim 3 wherein
2 said orbit has an eccentricity factor between about
3 0.1 and 0.5.

3
1. 5. A system as recited in claim 1 wherein
2 said minimum elevation angle is greater than thirty
3 degrees.

4. A system as recited in claim 1 wherein
1 2 3
said minimum elevation angle is greater than sixty
degrees.

5. A system as recited in claim 1 wherein
1 2 3
in said orbital track having an apogee and a perigee,
said apogee is over said service area.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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